Mathematics: Image 13-7

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 $\label{eq:Description:} Description:$

$$\left\{ \begin{array}{ll} \overline{AB} \mid & A = \left(-\sin(\frac{2\pi k}{1000}) \ , \ -\cos(\frac{6\pi k}{1000}) \right) \\ & , \end{array} \right. \\ \left. B = \left(\begin{array}{ll} -\frac{1}{2}\sin(\frac{2\pi k}{1000}) \ , \\ & \frac{-1}{2}\cos(\frac{4\pi k}{1000}) \end{array} \right) \\ & , \end{array} \\ \left. k = 1, 2, 3, ..., 1000 \right\} \\ \left. \left(\begin{array}{ll} \overline{AB} \mid & A = \left(\begin{array}{ll} -\frac{1}{2}\sin(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\sin(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{4\pi k}{1000}) \\ & \end{array} \right) \\ \left. \left(\begin{array}{ll} -\frac{1}{2}\sin(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{4\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\sin(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \end{array} \right) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos(\frac{2\pi k}{1000}) \\ & \left(\begin{array}{ll} -\frac{1}{2}\cos($$

